Darshil Dhiraj Chheda

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Versatile Software Developer with 3+ years of experience and a Master's in Computer Science. Expert in agile development, cloud services, & security. Demonstrated leadership in project enhancement & user experience optimization. Committed to advancing technology and system performance.

TECHNICAL SKILLS

Languages:	Python, Java, C, C++, Bash (Shell Scripting), Dart, JavaScript, TypeScript, PHP, Kotlin, HTML/CSS, Objective-C, .NET, GraphQL
Frameworks:	React, Spring Boot, Node.js, Vue.js, Three.js, Next.js, Tailwind CSS, Django, MVVM, Flutter, Android, Maven, Angular, Figma, Flask
Databases:	PostgreSQL, MySQL, MSSQL Server, MongoDB, Firebase, Cassandra, Neo4j, NoSQL
Cloud / DevOps:	AWS(S3, EC2, RDS, IAM, Lambda), Kubernetes, Jenkins, Docker, Git, CI/CD, Microservices
Libraries:	Redux, NumPy, Pandas, Selenium, OpenCV, Scikit-learn, PyTorch, TensorFlow, BeautifulSoup, SciPy, PyCharm, NLTK, Keras, Streamlit

WORK EXPERIENCE

Indiana University Bloomington | Full Stack Data Engineer | Bloomington, Indiana   May 2023 – Present
- Employed scrum agile methods to delve into healthcare IT solutions, developing 3 NIH-funded apps, aimed assisting individuals with health issues. Showcased JavaScript and React expertise by crafting fault-tolerant systems with 99.9% uptime, evidencing test-driven development capabilities.
- Developed an AI-powered chatbot, applying Python Flask and Large Language Models (LLM) for Alzheimers disease support, improving African American community engagement. Managed to acquire over 10,000 queries, embodying a passion for technology-driven enhancement.
- Incorporated additional native code, specifically Objective-C and Java, to augment user accessibility in app development. Accomplished a 98% crash-free rate through sophisticated integration of PostgreSQL, GPS, and APIs, refining user experience with targeted analytics.
- Directed a team of 8, utilizing TypeScript, React, NodeJs, and PostgreSQL, producing 3 innovative education technology solutions, leading to a 40% boost in problem-solving efficiency and promoting collaborative and analytical prowess.

Indiana University Bloomington | Graduate Associate Instructor | Bloomington, Indiana   Aug 2022 – May 2023
- Boosted problem-solving skills for 150+ students in Applied Algorithms, resulting in improvement in academic through interactive sessions.
- Elevated security knowledge among 80 students through detailed seminars on DES, AES, and Cipher techniques, achieving an increase in student proficiency in cybersecurity nuances, exhibiting effective educational engagement and subject mastery.

Daxy – The Digital Taxi | Software Engineer, Data Platform | Mumbai, India | **Google Play Store**   Jun 2020 – Dec 2021
- Cultivated B2B e-commerce Progressive Web Apps (PWA), improving diamond customization sales, leveraging React and Redux for custom UIs, resulting in increase client product listings with 250 products while authoring scalable design and featuring HTML/CSS, Django, and JavaScript skills.
- Architected 5+ responsive, full-stack e-commerce website applying Angular and React.Js, integrating customizable CRUD-based Admin backend, reducing product catalog controls. Utilized Apache Airflow for ETL orchestration, enhancing cross-team communication and workflow efficiency.
- Enhanced online transaction security by synthesizing Stripe payment gateway and implementing user authentication using Python, leading to a 99% reduction in fraudulent activities while illustrating expertise in system security, database management, and distributed computing practices.

Ocean Transworld Logistics | Software Developer | Mumbai, India   Jun 2019 – May 2020
- Managed development of a Java-based Android app with Firebase, cutting paper usage and reducing wage loss by 45%, showcasing deep RDBMS knowledge and query optimization in streamlining expense records and automating allowances.
- Innovated a route suggestion system employing AJAX, PHP, Bootstrap, alongside a sophisticated validation algorithm, resulting in fewer financial errors and 90% success rate in operational efficiency, proficiency in enterprise application development and large-scale system maintenance.

EDUCATION

Master of Science in Computer Science specializing Cybersecurity, Indiana University Bloomington, IN, USA   **GPA: 3.80 / 4.00**
Courses: Applied Algorithms, Advanced Operating System, Advanced Database Concept, Database Design, System Protocols   Jan 2022 – Dec 2023

Bachelor of Engineering in Computer Engineering, University of Mumbai, Maharashtra, India   **GPA: 3.70 / 4.00**
Courses: System Programming, Data Structures, Database Management, Software Engineering, Data Warehousing & Mining   Aug 2016 – Sep 2020

PROJECTS

How Can Disney+ Widen Subscriber Base? | GitHub: Oct 2023 – Dec 2023
- Pioneered comprehensive data analysis on over 1800 Disney+ titles, incorporating web scraping techniques and SQL queries to evaluate content strategy, leading to actionable recommendations aimed at optimizing subscriber growth through detailed content assessment.
- Formulated 50+ complex SQL queries for data systems analysis, aiding in documentation and process optimization of Disney+ integrations, directly contributing to an efficient improvement in subscriber data handling and reporting.

Stress App and Data Analysis | GitHub: Mar 2023 – May 2023
- Engineered an NIH-funded stress management application with Java and GPS, boosting location-based insights and distress index tracking by 35%, leveraging extensive experience in Java, C++, and innovative machine learning techniques.
- Documented over 100 query logic and data extraction processes for stress app, leading to increase in data processing efficiency and user experience.

Food Delivery App | Google Play Store: Nov 2020 – Apr 2021
- Constructed a food delivery app with Flutter, combining REST API-Driven Microservices, achieving city-wide coverage. Collaborated with 4+ teams including technical and business, ensuring feedback-driven enhancements, demonstrating effective mobile optimization and user interface expertise.
- Initiated UI enhancements in food delivery app using Objective-C & Java, leading to 65% increase in application stability. Combined efforts increased customer subscriptions and vendor participation, highlighting effective collaboration and problem-solving in a fast-paced startup environment.

Kid's Story Telling App | Google Play Store: Sep 2020 – Oct 2020
- Led a team of 5 in rollout of a storytelling app using React and Redux, targeting kids of entrepreneurial mothers, filling a market niche.
- Designed intricate database schema, harnessing deep understanding of Firebase database, leading to a 50% increase in project efficiency. Augmented user engagement by integrating a novel text-to-speech feature tailored for kids, enriching auditory learning and story enjoyment.